



VibePro

# YOUR ASSET HEALTH CHECK TO MAXIMIZE UPTIME

Continuous wireless condition  
monitoring with ANDRITZ VibePro

ANDRITZ

# Condition monitoring for maximum reliability

ANDRITZ VibePro is a smart sensor that continuously monitors the condition of essential equipment, ensuring that potential issues are detected before they impact operations – like a digital health check for your equipment. Achieve maximum uptime, extend the lifetime of your equipment, and ensure safe, reliable operations across your plant.

## THE PRINCIPLE OF PREDICTIVE MAINTENANCE

Conventional maintenance strategies are often based on fixed service intervals, meaning components are replaced regardless of their actual condition. This results in unnecessary expenses or, in the worst case, unexpected failures between planned interventions. ANDRITZ VibePro enables predictive maintenance by continuously tracking the operating condition of critical assets. Vibration and temperature data reveal early indicators of wear, misalignment, or imbalance, making it possible to schedule maintenance precisely when needed – avoiding both premature interventions and costly breakdowns.

## FROM RAW DATA TO ACTIONABLE INSIGHTS

Single vibration readings are of little use on their own. The real value comes from continuous monitoring and intelligent data analysis. ANDRITZ VibePro collects and evaluates data around the clock and automatically detects deviations from normal operating conditions.

Instead of overwhelming maintenance staff with complex raw signals, the system translates this information into clear dashboards, alarms, and practical recommendations. This enables teams to make confident, data-driven decisions without requiring deep expertise in vibration analysis.

## SECURE AND FLEXIBLE INTEGRATION

Every production environment has unique IT requirements. That is why ANDRITZ VibePro offers secure and flexible integration. Data can be hosted on local servers, private cloud environments, or scalable cloud platforms such as Microsoft Azure. Connectivity options include Wi-Fi, Ethernet, and optional cellular network, while wireless Bluetooth Low Energy ensures seamless communication between sensors and gateways. The system operates independently of existing IT systems, providing reliable data flow without disruption to production networks.



ANDRITZ VibePro sensor for condition monitoring



# Predictive maintenance instead of costly breakdowns

Unexpected failures disrupt production, reduce profitability, and create additional risks for equipment and personnel. ANDRITZ VibePro transforms reactive repair into predictive maintenance. By identifying developing issues early, it allows maintenance teams to act at the right time, with the right resources, and with minimal impact on production schedules.

## PREVENT UNPLANNED DOWNTIME

Failures often result in high repair costs, wasted raw materials, and lost production time. ANDRITZ VibePro continuously monitors critical components, including decanter centrifuges, pumps, fans – for any make or model of machines. By detecting anomalies in vibration and temperature data, the system alerts operators before failures occur, ensuring production continuity.

## PROTECT HIGH-VALUE MACHINERY

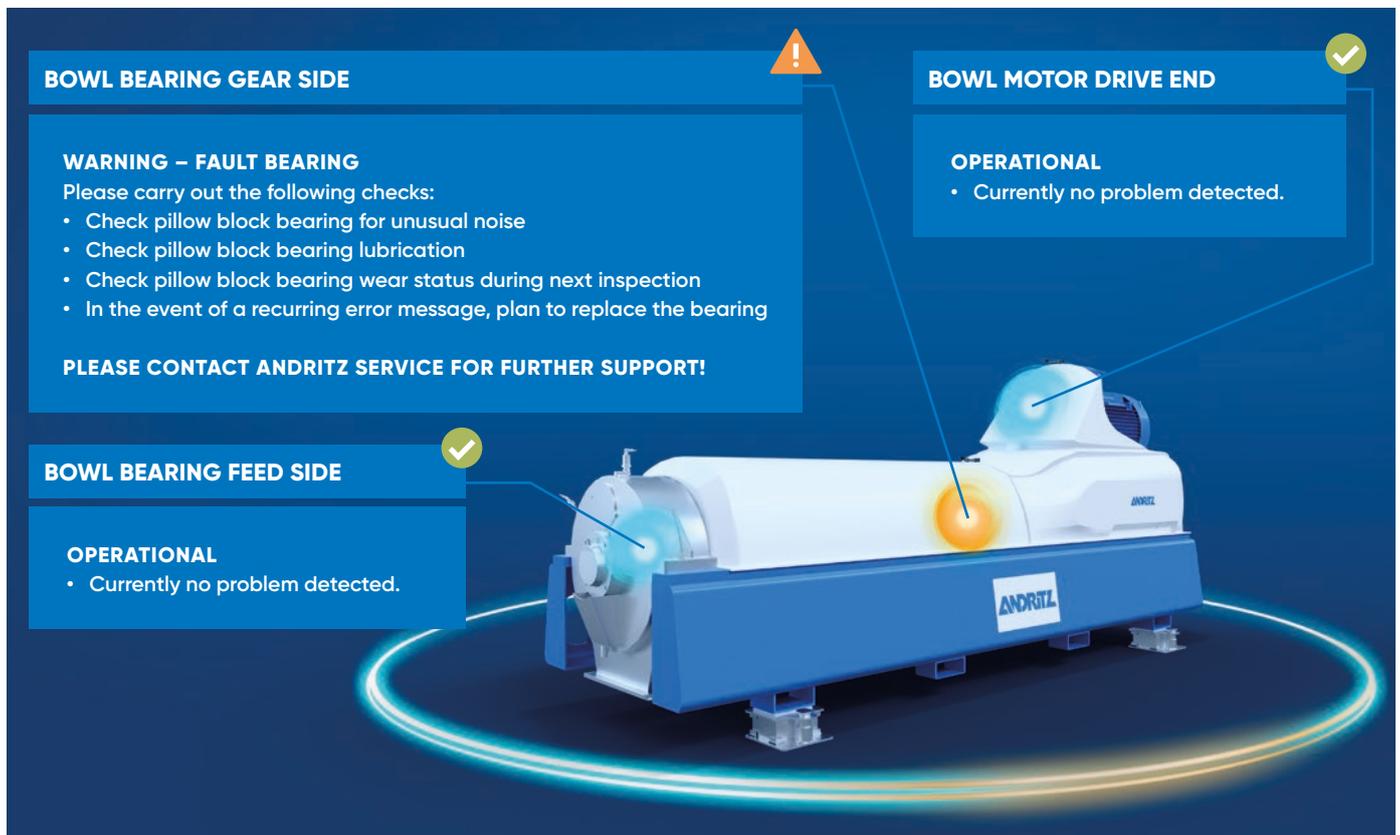
Modern equipment is highly specialized and costly to repair. A failure in one component can damage surrounding machinery, multiplying costs and downtime. ANDRITZ VibePro protects these investments by identifying potential failures early and helping you take timely action.

## ENHANCE WORKPLACE SAFETY

Undetected faults such as overheating bearings or misalignments can create safety hazards. By spotting problems early, ANDRITZ VibePro reduces the risk of accidents and protects both operators and equipment.

## BENEFITS

- 24/7 monitoring for maximum uptime
- Early fault detection
- Flexible deployment options
- Improved safety and efficiency



Exemplary analytics from ANDRITZ VibePro

# Turning complex data into clear decisions

Condition monitoring is only effective if data leads to practical decisions. ANDRITZ VibePro turns continuous measurements into clear dashboards, automated reports, alarms, and recommendations. It simplifies decision-making for maintenance teams and reduces dependency on specialized expertise.

## INTUITIVE DASHBOARDS AND SMART REPORTING

Real-time dashboards and scheduled reports provide maintenance teams a quick, reliable and instant overview of equipment health. Anomalies are clearly highlighted immediately to enable quick prioritization of service actions, while weekly summaries deliver structured insights at a glance. Users can drill down to asset-level data – from vibration velocity trends to temperature metrics – enabling deeper analysis whenever needed. Unlike static PDFs, these reports are interactive and data-rich. Embedded trend views, delta values, and diagnostic insights make it easy to track changes over time and support informed decision-making. For expert users, integrated FFT analysis of vibration samples provide an additional layer of detail, helping to detect complex issues such as misalignment or bearing damage at an early stage.

## AUTOMATED DIAGNOSIS

The system translates raw signals into alarms, trend views and practical recommendations. Built-in

intelligence minimizes false alarms and highlights critical deviations, so even less experienced staff can take the right actions without delay.

## COMPETENCE THAT ADDS VALUE

With decades of equipment expertise, ANDRITZ has built extensive machine databases and fault libraries. With access to these, ANDRITZ VibePro ensures that patterns are quickly recognized and highly reliable recommendations are made.

### BENEFITS

- Automated alarms, reports and recommendations
- Clear, user-friendly dashboards
- Structured insights from weekly machine health reports
- Interactive reports with trend views, delta values, and FFT analysis
- Supported by ANDRITZ expertise



Dashboards of the Metris All-in-One Platform



# Smooth and reliable operation

The core of ANDRITZ VibePro is its advanced sensor technology. Compact, wireless, and durable, the sensors continuously measure vibration and temperature to provide reliable data from even the most challenging environments. With minimal maintenance needs and flexible installation options, they make condition monitoring easy to deploy and cost-effective to operate.

## EASY TO INSTALL

Sensors can be mounted quickly using standard threads, adhesives, or magnets. No complex setup or alignment is required. Once the ANDRITZ VibePro sensors are placed on the critical machine surface points, you will provide continuous data stream on vibration and temperature.

## ENGINEERED FOR TOUGH ENVIRONMENTS

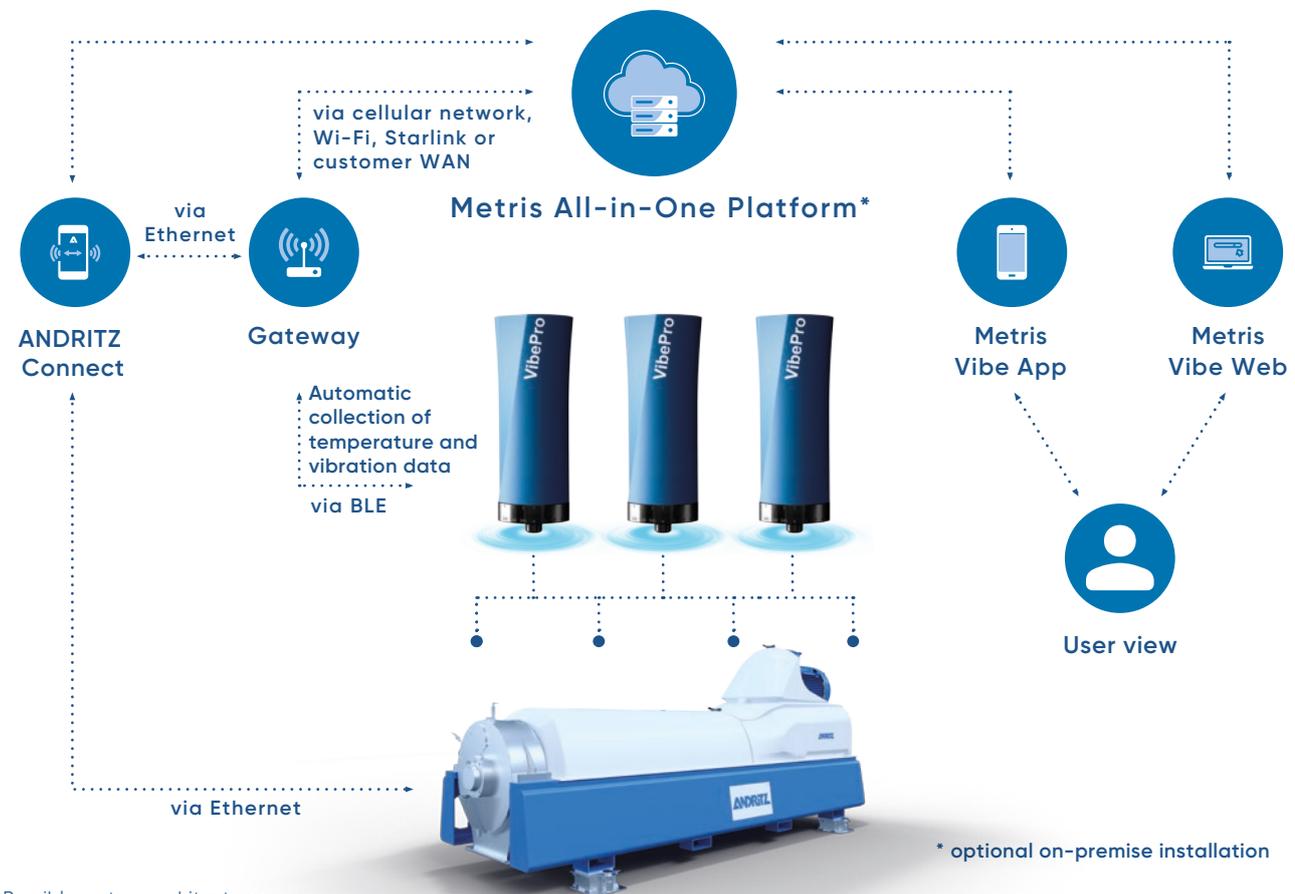
The case of the sensor is designed to operate reliably in harsh and hazardous conditions. Additionally, based on the wireless connection to the database, there is no need for vulnerable cabling. It makes the ANDRITZ VibePro sensors perfect even for areas of equipment that are difficult to reach.

## LOW MAINTENANCE REQUIREMENTS

The sensors are energy-efficient and can operate for up to 15 years before requiring a simple battery replacement. This ensures low lifecycle costs and maximum reliability.

## SECURE DATA TRANSMISSION

ANDRITZ VibePro sensors communicate via their own secure system, without affecting your production facility's IT network. The captured data is then transmitted securely via Bluetooth Low Energy (BLE) to the relevant gateway or mobile devices and finally stored on the Metris platform. Here, the data is further analyzed so that alerts and recommendations can be provided to the operator.



Possible system architectures

# Expert support and comprehensive services

ANDRITZ VibePro delivers automated insights, but some situations require deeper analysis. ANDRITZ experts provide advanced vibration diagnostics, root cause investigations, and tailored recommendations. With our global service network, we ensure the right support is always within reach – from spare parts to on-site assistance.

## ADVANCED VIBRATION EXPERTISE

Our specialists use advanced diagnostic methods such as FFT and envelope analysis to uncover underlying issues and recommend corrective actions tailored to your machines.

## LIFECYCLE SERVICE PACKAGES

ANDRITZ VibePro is supported by dedicated lifecycle service packages that ensure the system remains accurate, up to date, and aligned with customer needs. These offerings include scheduled reports delivered directly via email, ad-hoc alarms that trigger instant reporting based on defined limits, and continuous access to the latest Metris Vibe CMS software for mobile and desktop. In addition, regular performance reviews and system adjustments are carried out by our decanter experts – keeping measurement accuracy and reliability at the highest level.

## GLOBAL FIELD SERVICE

With service teams worldwide, ANDRITZ provides rapid on-site and remote support, ensuring professional execution of maintenance. Thanks to our comprehensive network of service centers and warehouses, we can deliver timely spare parts.

## CROSSLINKING VIBRATION AND PROCESS DATA

A key differentiator of ANDRITZ VibePro is the ability to combine vibration data with process data. By linking machine condition with operational parameters, ANDRITZ VibePro goes beyond conventional condition monitoring and provides deeper insights into the true causes of anomalies.

This unique approach leverages ANDRITZ's OEM expertise, enabling more accurate diagnoses and smarter recommendations. The result: maintenance strategies that are not only proactive, but also closely aligned with real process conditions – maximizing reliability, efficiency, and performance.

## BENEFITS

- ANDRITZ experts solve complex issues via advanced diagnostics
- Local presence supported by global resources and remote services
- Lifecycle service packages such as scheduled reports, ad-hoc alarms, software access, and periodical performance reviews
- Professional field service and timely supply of spare parts
- Unique combination of vibration and process data for deeper insights



# Smart technology. Strong performance.

ANDRITZ VibePro combines advanced sensing technology with robust design and flexible connectivity. Its specifications demonstrate why it is the ideal choice for wireless condition monitoring in demanding industrial environments.

## TECHNICAL DETAILS

<b>Measurements</b>	Surface Temperature Acceleration in 3 axes
<b>Dimensions</b>	34 x 98mm
<b>Sampling Frequency</b>	100-25600 Hz
<b>Amplitude</b>	Up to 64g
<b>Maximum Frequency</b>	6000 Hz (Z) 9000 Hz (X) 9000 Hz (Y)
<b>Ambient Temperature</b>	-40°C to 85°C
<b>Machine Surface Temperature</b>	From -40°C to 105°C
<b>Waveform</b>	15,000 samples (3 axes measurement) 45,000 samples (1 axes measurement)
<b>Measurement Interval</b>	Default: 120 min Minimum: 5 minutes Maximum: 7 days
<b>Communication</b>	Bluetooth (wireless), BLE 2.4 GHz
<b>Range</b>	50m line of sight
<b>Battery</b>	Lithium-Thionyl-Chloride batteries (proprietary), exchangeable, lifetime up to 15 years, strongly dependent on temperature and settings
<b>Mounting</b>	M8 Thread Glue Face Stud (standard) Conical Mount Stud (optional) Fin Mount Stud (optional)
<b>Analysis Parameter</b>	FFT acceleration, FFT velocity, FFT envelope, waveform, waveform envelope, band values can be configured customizable, temperature
<b>Labels</b>	IP69, CE, Ex II 3D Ex ic IIIC T135°C Dc, II 1G Ex ia IIC T4 Ga, II 1D Ex ia IIIC T135°C Da, FCC





## A WORLD OF SEPARATION SOLUTIONS

ANDRITZ provides mechanical and thermal solid/liquid separation technologies, complemented by comprehensive services, automation, and digitalization solutions for the chemicals, environment, food and beverage, as well as mining and minerals industries. Our customized, innovative solutions focus on minimizing resource consumption and maximizing process efficiency, thus making a substantial contribution towards sustainable environmental protection. With over 150 years of experience and more than 2,700 separation specialists around the globe, we are a driving force in the evolution of separation solutions – enabling industries to meet tomorrow's demands responsibly. **ANDRITZ. FOR GROWTH THAT MATTERS.**

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